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**Resources**

[View All \(813\)](#)  
[Adenoviruses \(137\)](#)  
[Antibodies \(175\)](#)  
[Bioimages \(67\)](#)  
[Genomics Studies \(145\)](#)  
[mESC Lines \(68\)](#)  
[Mouse Strains \(120\)](#)  
[Miscellaneous \(46\)](#)  
[Protocols \(55\)](#)  
[Research Data \(4\)](#)  
[Resource Tags \(389\)](#)  
[Visualization \(9\)](#)

**Research & Cores**



[Core Facilities \(5\)](#)  
[Research Highlights \(5\)](#)  
[Research Networks](#)  
[Research Objectives](#)

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[NIH hESC Registry](#)  
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[Member Publications](#)  
[Research Programs](#)  
[Research Investigators](#)  
[Member Directory](#)  
[Tutorials](#)

## Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors. - Study GBCO3425

### Genomics Study Specifications

<b>Study Name</b>	Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors.								
<b>Contact Name</b>	<a href="#">Anthony Gavalas</a> (MRC Clinical Sciences Centre Hammersmith Campus)								
<b>Publication</b>	<a href="http://www.ncbi.nlm.nih.gov/pubmed/17932425">http://www.ncbi.nlm.nih.gov/pubmed/17932425</a>								
<b>My Strategies</b>	<a href="#">Return to My Strategies page</a>								
<b>Classification</b>	Cell differentiation; Targets and roles of transcriptional regulators; Differentiation of insulin-producing cells								
<b>Links</b>	 <a href="#">Biomaterials Graph</a>  <a href="#">ArrayExpress</a>								
<b>BCBC Release Date</b>	September 23, 2008								
<b>Public Release Date</b>	September 23, 2008								
<b>Citation</b>	Serafimidis I, Rakatzi I, Episkopou V, Gouti M, Gavalas A. <a href="#">Novel effectors of directed and Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors</a> . Stem Cells. 2008. 26:3-16								
<b>Synopsis</b>	<div style="border: 1px solid gray; padding: 5px;"> <table border="1"> <tr> <td><b>Study Description</b></td> <td>Goals</td> </tr> <tr> <td>Approaches</td> <td>Results</td> </tr> <tr> <td>Conclusions</td> <td></td> </tr> <tr> <td>Related Studies</td> <td></td> </tr> </table> <p>A mouse embryonic stem cell line was generated which stably expressed the ngn3 transcription factor under the control of the Tet-On inducible system using knock-ins in the ROSA26 and the HPRT loci. The undifferentiated mouse embryonic stem cells were then differentiated into Embryoid Bodies in suspension culture and were either treated with Doxycycline to induce NGN3 expression or left untreated as a control. Cells were harvested at 12 hours, 24 hours and 48 hours.</p> </div>	<b>Study Description</b>	Goals	Approaches	Results	Conclusions		Related Studies	
<b>Study Description</b>	Goals								
Approaches	Results								
Conclusions									
Related Studies									
<b>Platform types</b>	Expression, Expression microarray								
<b>Platforms</b>	<a href="#">Show platform Affymetrix MOE430A</a>								
<b>Study Design Type</b>	<ul style="list-style-type: none"> <li>compound_treatment_design</li> <li>time_series_design</li> </ul>								
<b>Study Factors</b>	<a href="#">Show study factors</a>								
<b>Study Assays</b>	<a href="#">Show study assays</a>								

### Access to Study Data


This Study Data is publicly available to all users.

### Gene List(s)


Browse related gene lists by clicking on the link(s) below:

[NGN3 Induced vs. Uninduced Mm ESC](#)

### Access Status

 This resource is publicly viewable.


### Request this Resource

 Request from a repository

Primary contributor: [Stoeckert Lab](#)

### Resource Tags

Affymetrix MOE430A, Dll1 delta-like 1 (Drosophila), IA-1, Insm1, insulinoma-associated 1, locus 2 (Drosophila), Neurod, Neurod1, Neurog3, neurogenic differentiation 1, neurogenin 3, ngn3, Ngn3, ngn3 esc, NK2 transcription factor related, Nkx2-2, Nkx2.2, paired box gene 4, Pax4

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### Resource History & Actions

Approved on Sep 23, 2008  
 Last modified on Jan 17, 2012

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### Related resources

#### BCBC

No matching resources

#### Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

## Genome Browser

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*There are no genome browser tracks currently available for this study.*

## Lists of Locations

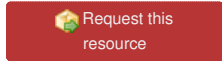
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*There are no genomic location datasets currently available for this study.*

## Repositories

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Stoeckert Lab



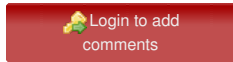
**Stock #:** *Not provided*  
**Availability Notes:** *Not provided*

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## Comments

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*There are no comments for this entry.*



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